

Product datasheet for **TP308787L**

ERCC1 (NM_202001) Human Recombinant Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) (ERCC1), transcript variant 1, 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC208787 protein sequence Red =Cloning site Green =Tags(s) |
| | <p>MDPGKDKEGVPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVD TSAQAAPQTYAEY AISQPLE GAGATCPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKVRNVPWEFGDVIPDYVLGQSTCALF LSLRYHNLHPDYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLE TYKAYEQPADLLMEKLEQDFVSRVTECLTTVKSVNKTD SQTLLTTFGSLEQLIAASREDLALCPGLGPQ KVRALGKNPRSWGKERAPNKHNLRPQSFVKVKEPKTRHSGFRL</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag: | C-Myc/DDK |
| Predicted MW: | 35.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP_973730</u> |



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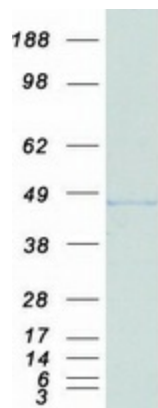
| | |
|---------------|------------------------|
| Locus ID: | 2067 |
| UniProt ID: | P07992 |
| RefSeq Size: | 1291 |
| Cytogenetics: | 19q13.32 |
| RefSeq ORF: | 969 |
| Synonyms: | COFS4; RAD10; UV20 |

Summary: The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand. [provided by RefSeq, Oct 2009]

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

Product images:



Coomassie blue staining of purified ERCC1 protein (Cat# [TP308787]). The protein was produced from HEK293T cells transfected with ERCC1 cDNA clone (Cat# [RC208787]) using MegaTran 2.0 (Cat# [TT210002]).